

NIAD 201.3 DIV (10109394)**IN THE CLAIMS**

Claims 1-66. (Cancelled)

- Claim 67. (Previously presented) An isolated antibody which binds specifically to a protein which catalyzes release of ADP-ribose from an ADP ribose polymer, encoded by a nucleotide sequence that is at least 80% identical to the nucleotide sequence set forth in SEQ ID NO: 1, wherein the protein has a molecular weight greater than 100 kilodaltons as determined by SDS PAGE.
- Claim 68. (Previously presented) The isolated antibody of claim 67, wherein said isolated protein has the amino acid sequence set forth in SEQ ID NO: 2, 4, or 6.
- Claim 69. (Previously presented) The isolated antibody of claim 67, encoded by a nucleotide sequence set forth in SEQ ID NO: 1, 3, or 5.
- Claim 70. (Previously presented) An isolated antibody which binds specifically to a protein which catalyzes release of ADP-ribose from an ADP-ribose polymer, wherein said protein comprises the amino acid sequence set forth in SEQ ID NO: 11, 12, 13 or 14, and has a molecular weight greater than 100 kilodaltons, as determined by SDS-PAGE.
- Claim 71. (Currently amended) The isolated antibody of claim 70, which binds specifically to a protein encoded by a nucleic acid molecule, the complementary sequence of which hybridizes ~~under stringent conditions to~~ the nucleotide sequences set forth in SEQ ID NO: 1 under the following conditions: prehybridization at 42 ° C in 50% formamide, 0.25 M sodium phosphate buffer, pH 7.2, 0.25 M NaCl, 7% SDS, 1 mM EDTA for 10 hours, 100 ug denatured salmon sperm DNA, hybridization at 42 ° C in

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50% formamide, 0.25 M sodium phosphate buffer, 100 ug denatured salmon sperm DNA, pH 7.2, 0.25 M NaCl, 7% SDS, 1 mM EDTA.

- Claim 72. (Currently amended) The An isolated antibody ~~of claim 70~~, which binds specifically to a protein which catalyzes release of ADP-ribose from an ADP-ribose polymer, wherein said protein comprises comprising amino acids 677-977 of SEQ ID NO: 4.
- Claim 73. (Previously presented) The isolated antibody of claim 67, selected from the group consisting of an antibody and an antibody fragment.
- Claim 74. (Previously presented) The isolated antibody of claim 73, wherein said antibody fragment is an Fc fragment, an Fab fragment, an Fab' fragment, and an Fab' (2) fragment.
- Claim 75. (Previously presented) The isolated antibody of claim 67, wherein said antibody binds to the C terminus of said protein.
- Claim 76. (Previously presented) The isolated antibody of claim 67, wherein said antibody binds to the N terminus of said protein.
- Claim 77. (Previously presented) The isolated antibody of claim 70, selected from the group consisting of an antibody and an antibody fragment.
- Claim 78. (Previously presented) The isolated antibody of claim 67, wherein said antibody fragment is an Fc fragment, an Fab fragment, an Fab' fragment, and an Fab' (2) fragment.
- Claim 79. (Previously presented) The isolated antibody of claim 70, wherein said antibody binds to the C terminus of said protein.

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Claim 80. (Previously presented) The isolated antibody of claim 70, wherein said antibody binds to the N terminus of said protein.